



5 X 3 CRUSHER SPECIFICATIONS

Overview

The Keegor Single Toggle, Roller Bearing Jaw Crusher is of the overhead eccentric type and is well adapted to producing the finely crushed product which is required in the Assay Office. Metallurgical Laboratory and any other application requiring crushing of samples.

The machine is of robust design and continuous, production orientated applications can be accommodated under certain conditions.

The 127 mm x 76 mm feed opening provides adequate crushing capacity for most laboratory applications.

General Details

Maximum Feed Size:

The machine is capable of accepting a maximum feed size of the same proportions as the feed opening (127 x 76 mm). This translates into a maximum feed size of 100% minus 76 mm.

Minimum Crushed Particle Size:

The crusher can comfortably reduce the feed down to 100% minus 3 mm.

Drive:

Totally enclosed fan cooled, 4 kW, 4 pole, 525V or 380V motor (or other voltage on request), which can be conveniently mounted behind or above the crusher.

The motor is supplied complete with a 3 groove V-pulley.

For geological fieldwork or remote locations, a petrol or diesel motor can be supplied in place of the electric motor.

Frame:

This is of one-piece steel construction and is of heavier section than the frames of contemporary machines of equivalent capacity.



5 X 3 CRUSHER SPECIFICATIONS

General Details Continue

Eccentric Shaft:

Accurately machined from EN9 steel, with a minimum tensile strength of 45 tons. The shaft has been designed for the heaviest duty and is supported in the main frame on heavy duty, double row, self-aligning roller bearings, grease packed and adequately sealed against the ingress of dust and moisture.

Pitman Arm:

A one-piece steel casting supported on large diameter, heavy duty, adjustable taper roller bearings, sealed with felt against the intrusion of dust and moisture.

Toggle & Seats:

These are of white iron, easily accessible and inexpensive to replace. The toggle is maintained in position by two powerful drawback springs, the tension of which is controlled by means of two easily accessible eyebolts.

Stationary Jaw Holder:

The main feature of this component is the ease with which it can be withdrawn from the machine for inspection and/or renewal of jaw plates.

Material:

Cast Steel.

Jaw Plates:

These are of 14% manganese steel and are interchangeable and reversible. The method of clamping the jaw plates in position is simple and effective, the swing jaw being held by a wedge shaped clamp at its upper end and the stationary jaw plate by a clamp at its lower end.

Cheek Plates:

These are of 14% manganese steel, rectangular in shape, interchangeable and reversible and are housed in two rectangular recesses in the main frame. The plates are held securely in position by two setscrews and the clearance between them and the jaw plates is controlled by three setscrews on either side of the main frame.



5 X 3 CRUSHER SPECIFICATIONS

General Details Continue

Control of Product Size:

This is affected by two acutely angled complementary iron wedges, which can be adjusted in or out by means of large set screws, one on either side of the main frame.

Protection from Shock Overloads:

The steel distance pieces passing through the front of the main frame, transmit the thrust of the stationary jaw to a heavy steel plate, clamped against a machined face on the front of the main frame by 6 powerful compression springs.

Any sudden overload causes the stationary jaw to swing forward, the shock being transferred through the distance pieces to the compression springs. Provision has been made for the adjustment of the tension of the shock absorber springs.

Flywheels:

These are of heavy one-piece cast construction.

General:

This crusher is manufactured entirely in South Africa with the exception of the anti-friction bearings, which are available ex local stocks.